

Title (en)
CONSTRUCTION MACHINE

Title (de)
BAUMASCHINE

Title (fr)
ENGIN DE CHANTIER

Publication
EP 4012116 A4 20230830 (EN)

Application
EP 20881631 A 20201028

Priority
• JP 2019198991 A 20191031
• JP 2020040447 W 20201028

Abstract (en)
[origin: EP4012116A1] There is provided a construction machine capable of performing hanging work according to the intention of an operator. A hydraulic excavator 1 includes: an operating lever 420 for performing a turning operation; the cameras 61, 62, 63 for detecting any obstacle; and a controller 8 for controlling the operations of a vehicle body and a front working device 5. In the hydraulic excavator 1, in a case where the obstacle is detected by any of the cameras 61, 62, 63, the controller 8 performs an operation limiting process. The hydraulic excavator 1 further includes a hook 53A, a mode selector switch 64 for switching the operation to a hanging work mode. In a case where the obstacle is detected by any of the cameras 61, 62, 63, the controller 8 disables the operation limiting process and controls the operation of the vehicle body or the front working device 5 according to the manipulated variable of the operating lever 420.

IPC 8 full level
E02F 9/22 (2006.01); **B66C 23/88** (2006.01); **E02F 3/43** (2006.01); **E02F 3/96** (2006.01); **E02F 9/20** (2006.01); **E02F 9/24** (2006.01); **E02F 9/26** (2006.01)

CPC (source: CN EP KR US)
B66C 23/88 (2013.01 - KR); **E02F 3/28** (2013.01 - CN); **E02F 3/36** (2013.01 - CN); **E02F 3/40** (2013.01 - CN); **E02F 3/42** (2013.01 - CN); **E02F 3/43** (2013.01 - CN); **E02F 3/962** (2013.01 - EP); **E02F 9/2029** (2013.01 - KR); **E02F 9/2033** (2013.01 - EP KR US); **E02F 9/22** (2013.01 - CN); **E02F 9/2221** (2013.01 - KR); **E02F 9/225** (2013.01 - CN); **E02F 9/226** (2013.01 - CN); **E02F 9/24** (2013.01 - KR US); **E02F 9/26** (2013.01 - KR); **E02F 9/262** (2013.01 - EP US); **E02F 3/435** (2013.01 - EP); **E02F 9/2285** (2013.01 - EP); **E02F 9/2296** (2013.01 - EP)

Citation (search report)
• [A] WO 2019139102 A1 20190718 - SUMITOMO SHI CONSTR MACH CO [JP]
• [AD] JP 2007023486 A 20070201 - CATERPILLAR MITSUBISHI LTD

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)
EP 4012116 A1 20220615; **EP 4012116 A4 20230830**; CN 114174598 A 20220311; CN 114174598 B 20221216; JP 2021071000 A 20210506; JP 7217691 B2 20230203; KR 20220025031 A 20220303; US 2022341129 A1 20221027; WO 2021085477 A1 20210506

DOCDB simple family (application)
EP 20881631 A 20201028; CN 202080054688 A 20201028; JP 2019198991 A 20191031; JP 2020040447 W 20201028; KR 20227002967 A 20201028; US 202017640860 A 20201028